#### **Etienne Meunier**

Rennes, France DoB: 23/08/1996

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## Education:

Sept. 2020 PhD in Computer Science, Inria Rennes - France Nov. 2023 Deep Learning for unsupervised visual saliency detection in image sequences. Reference: Patrick Bouthemy - patrick.bouthemy@inria.fr Published several works in international peer-reviewed issues Implemented and released open source implementation of our works Supervised two master-level interns working on satellite image analysis Jan. 2019 Master of Science, Boston University - United States Sept. 2019 Concentration in Computer Information Systems - GPA: 3.96/4. Sub-concentration in Data Analytics Advanced Machine Learning • Research project comparing Generative Networks and Evolutionary Approaches Sept. 2014 Diplôme d'ingénieur, ECE Paris - France Dec. 2018 Concentration in Computer Science - Top 5% overall ranking Mathematics, Programming, Electronics, Robotics, Data science **July 2016 University of Newcastle - Australia** Dec. 2016

## Peer-reviewed publications:

2023 Highlight	motions  Meunier. E & Bouthemy P.
<b>TPAMI</b> 2023	EM-driven unsupervised learning for motion segmentation  Meunier E., Badoual A & Bouthemy P.
BMVC 2021	Unsupervised computation of salient motion maps from the interpretation of a frame-based classification network  Meunier. E & Bouthemy P.
MLCB 2019	Interpreting deep learning models in genomics using genetic algorithm Meunier E., Novakovsky G. & Mostafavi S.

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### **Oral Presentations:**

### Presentation, MIA 2023 - Berlin, Germany

EM-driven network for efficient unsupervised motion segmentation, Meunier E., Badoual A.. & Bouthemy P.

Presentation, ImmGen Consortium 2019 - Harvard University - Boston, United States AI-TAC and DNA sequence generation. Maslova S. & Meunier E.

Software Engineering, Operating Systems

## Poster, Official Opening of the New Met College Building 2018 - Boston, United States

A Simple Comput. Approach to Predict Long Term Hourly Electric Consumpt.. Meunier E., Moreau P. & Pinsky E.

# Teaching:

•	Research Methods in Computer Vision, EFREI - Paris, France Master Level, lecturer for 40+ students.

Understanding mathematical reasoning and implementation of recent CV papers.

Sept. 2022 | Machine Learning, EFREI - Paris, France Dec. 2022 | Master Level, teaching assistant

## Practical and professional experience:

### Sept. 2019 Aug. 2020

### Visiting Scholar, University of British Columbia, Mostafavi Lab - Canada

Research at the Mostafavi lab focuses on developing computational and statistical approaches for integrating and interpreting diverse types of genomics data.

Reference: Sara Mostafavi - saramos@cs.washington.edu

- Trained Auto-Encoders to build embeddings of DNA sequences based on a regression target variable.
- Developed evolutionary approaches to generate sequences conditioned by the activation of a Convolutional Neural Network.

### Dec. 2018 Sept. 2019

### Freelance IT consultant, Seelk - France

Seelk is a company that uses data analytics to help companies to develop their sales on the Internet.

 Developed analytical tools to give insights to companies on how web markets are building rankings and evaluate the impact of business decisions.

### May. 2018 Aug. 2018

# Researcher Intern, Centre de Ressources et d'Appui sur le Risque Requin - La Reunion Supervisor : Eric Chateauminois, COO

The CRA is an organization created by the French Government to lead research on innovative solutions to reduce the risk of shark attacks on La Reunion Island (Indian Ocean).

## **During Internship**:

• Reduced by 10x the amount of videos to watch for biologists by developing a motion detection algorithm that works on underwater videos using several tracking techniques.

### As a consultant (Sept. 2018 - Aug. 2019):

• Leading the development of shark detection algorithm using a deep learning approach.

## June 2017 Aug. 2017

## Data Engineer Intern, Datamaran - England

Supervisor: Alberto Pacheco, Data Engineer

Datamaran is a London-based business intelligence provider that uses data analysis and IA to help businesses to monitor emerging regulatory and reputational risks.

- Integrated 10k+ financial reports into the database, by developing a process that extracts, preprocesses and stores data automatically from selected web sources.
- Started a research project aimed to use machine learning techniques to extract opinions on companies from tweets.

### April 2016 May 2016

### Internship, Zodiac Aerospace - France

Supervisor: David Vicart, Production Manager

Zodiac Aerospace designs high-technology equipment and systems for critical aircraft functions and in-flight and on-ground safety.

• Improved by 5x technicians speed to access internal documentation by developing a program that automates research in scanned technical documents using Visual Basic.

## Personal Projects:

## Nov. 2016 Sept. 2018

Leader of project Kolibri which offers transportation solutions to independent producers Kolibri is a project aimed to offer alternative transportation solutions to french independent producers and use cost evaluation techniques to give them insights on their choice.

• Selected as one of 110 projects to be part of the plan to promote innovative initiatives financed by the city of Paris.

# Personal Achievements:

Jan. 2018

### **4L Trophy**

Feb. 2018

Humanitarian car race between Paris and southern Morocco.

- Bought, repaired and prepared an old Renault R4 for several months for a race in the Sahara desert.
- Collaborated with companies to raise money and donated bags of school supplies to Moroccan children.